Special Issue

Vehicle Dynamics and Control

Message from the Guest Editor

In electric vehicles with a multiple-motor powertrain, a torque vectoring (TV) strategy can be achieved with individual wheel torque control. This feature can significantly enhance performance and active safety. TV can also increase energy efficiency through the appropriate design of wheel torque distribution. Moreover, typical control strategies and active safety systems rely on the real-time monitoring of the vehicle sideslip angle (VSA). Its estimation has been a big challenge so far, and it is still a hot research topic. This Special Issue will focus on vehicle dynamic active control strategies, together with VSA estimation methods and all the vehicle models involved with them. Papers are invited in all these different areas (but are not limited to them), as they are multidisciplinary topics involving economic and environmental aspects as well. Both theoretical and experimental works are welcome, especially those including validation with experiments. Recently, interest in driving simulators has been raised; therefore, papers exploring the utility of such a tool in developing vehicle dynamic control strategies are also encouraged.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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